

[Home](#)
[PUBLIC](#)
[Questions](#)
[Tags](#)
[Users](#)
[Companies](#)
[COLLECTIVES](#)
[Explore Collectives](#)
[TEAMS](#)

### Stack Overflow for Teams

Start collaborating and sharing organizational knowledge.


[Create a free Team](#)
[Why Teams?](#)

# Django Server Error: port is already in use

[Ask Question](#)

Asked 9 years ago Modified 2 months ago Viewed 381k times

Restarting the Django server displays the following error:

266

```
this port is already running....
```



This problem occurs specifically on Ubuntu and not other operating systems. How can I free up the port to restart the server?



python django

Share Improve this question Follow

edited Jun 4, 2019 at 21:04



Jeff Bauer

13.7k ● 9 ● 51 ● 73

asked Nov 27, 2013 at 10:00



Ashish Kumar Saxena

4,200 ● 8 ● 27 ● 44

- 1 Don't use ctrl+z to stop server. As mentioned here [askubuntu.com/a/510816](#) Control+Z shunts it into the background, suspended. That is why your port is already in use. – Muzaffer May 21, 2021 at 8:07

Also occurring on Fedora 35 – Hektor Jun 12 at 15:10

Add a comment

17 Answers

Sorted by: Highest score (default)



A more simple solution just type `sudo fuser -k 8000/tcp`. This should kill all the processes associated with port 8000.

729



EDIT:

For osx users you can use `sudo lsof -t -i tcp:8000 | xargs kill -9`



Share Improve this answer Follow

edited Nov 17, 2015 at 12:49

answered Nov 27, 2013 at 10:53



Mounir

10.6k ● 2 ● 31 ● 34

- 31 On mac you need to use `sudo lsof -i tcp:8000` then kill the process ids that show up. – gordonc Jan 21, 2015 at 13:24

- 1 So whatever the port is just replace 8000 with the port the block occurs. – Manish Shrivastava Dec 19, 2016 at 16:02

I'm getting this error, but I have killed everything on the port. – wanderer0810 Sep 8, 2017 at 23:52

Works! On mac: sudo lsof -i tcp:8000 – Wim den Herder Nov 19,

### The Overflow Blog

- How to make time for learning in tech sponsored post
- Ready to optimize your JavaScript with Rust?

### Featured on Meta

- Help us identify new roles for community members
- Navigation and UI research starting soon
- Temporary policy: ChatGPT is banned

### Linked

- 0 How to fix 8000 port is already in use django runserver problem?
- 2 E: Unable to fetch some archives, maybe run apt-get update or try with --fix-missing?
- 0 django runserver, port taken
- 70 How to 'clear' the port when restarting django runserver
- 18 How to stop the node.js inspector / Chrome Debugger on SIGINT?
- 2 Kill tomcat service running on any port, Mac Sierra
- 2 Process running on port needs to be killed everytime I re-run a script in PyCharm
- 1 Django says port is already in use
- 2 I am getting these error a lot in django running on my ubuntu pc

### Related

- 796 How can I combine two or more queriesets in a Django view?
- 1692 Proper way to declare custom exceptions in modern Python?
- 2679 Check if a given key already exists in a dictionary
- 552 Creating a JSON response using Django and Python
- 706 What can I do about "ImportError: Cannot import name X" or "AttributeError: ..." (most likely due to a circular import)?"
- 1464 UnicodeEncodeError: 'ascii' codec can't encode character u'\xa0' in position 20: ordinal not in range(128)

1 I come like everyday to copy and past in my terminal. THANKS  
– zaman Jul 11 at 14:07

netstat -ntlp



ps aux | grep -i manage

 Question feed

Share Improve this answer Follow edited Nov 27, 2013 at 10:28

answered Nov 27, 2013 at 10:03



Ashish Kumar Saxena  
4,200 ● 8 ● 27 ● 44

So you try to start the server again, while one is already running? That won't work as the first one will be using the HTTP port. You must kill or terminate the first one, before trying to run again (at least run it on the same port). – [Some programmer dude](#) Nov 27, 2013 at 10:05

It's working because you killed the currently running instance, which is what I said you have to do. You can't have two programs listening on the same network port, it's as easy as that. So this is a solution to something that isn't really a problem, just a fact.  
– [Some programmer dude](#) Nov 27, 2013 at 10:10

I'm sorry if I might have been coming on to strong, I'm just feeling a little grumpy today. :/ – [Some programmer dude](#) Nov 27, 2013 at 10:20

Add a comment

▲  
13  
▼

By default, the runserver command starts the development server on the internal IP at port 8000.

If you want to change the server's port, pass it as a command-line argument. For instance, this command starts the server on port 8080:



```
python manage.py runserver 8080
```

Share Improve this answer Follow

edited Oct 31, 2018 at 1:37



Stephen Rauch ♦  
46.2k ● 31 ● 107 ● 128

answered Oct 31, 2018 at 1:15



Freddy  
144 ● 1 ● 4

3 @StephenRauch, the question does not ask WHO is using the port. The question is stating an error being thrown. This is a solution on how to fix that error. – [Freddy](#) Nov 1, 2018 at 18:38

2 The OP is asking how to restart the server on port 8000, not asking for running it on another port – [uclaastro](#) Jan 23, 2020 at 6:32

Add a comment

▲  
12  
▼

```
lsof -t -i tcp:8000 | xargs kill -9
```



Share Improve this answer Follow

edited Mar 11, 2021 at 14:01



Samsul Islam  
2,528 ● 2 ● 16 ● 23

answered Feb 4, 2020 at 6:14



Nandy  
311 ● 3 ● 5

1 Don't routinely recommend `kill -9`; it should only be used as a last resort in desperate situations. – [tripleee](#) Dec 3, 2021 at 13:33

Add a comment

▲ Sorry for comment in an old post but It may help people

6 Just type this on your terminal

▼ `killall -9 python3`



It will kill all python3 running on your machine and it will free your all port. Greatly help me when to work in **Django** project.

Share Improve this answer Follow

answered Feb 23, 2020 at 12:28



Antu

2,079 ● 3 ● 24 ● 40

This is extremely hamfisted for anyone who might be running Python for *any* other reason. – [tripleee](#) Dec 3, 2021 at 13:34

I already mention that `it will kill all python3 running on your machine` – [Antu](#) Dec 4, 2021 at 4:01

Those who are the most likely to try this without properly understanding it will probably also not understand that point without further elaboration. – [tripleee](#) Dec 4, 2021 at 7:08

Add a comment

▲ We don't use this command { `sudo lsof -t -i tcp:8000 | xargs kill -9` } Because it's close all tabs...You should use to

5



`ps -ef | grep python`



`kill -9 process_id`



`ps -ef | grep python` (show all process with id)

`kill -9 11633` (11633 is a process id to `:/bin/python manage.py runserver`)

Share Improve this answer Follow

answered Jul 10, 2017 at 11:33



Mr Singh

3,666 ● 3 ● 38 ● 57

Add a comment

▲ `>> ps aux | grep manage`

5



`ubuntu 3438 127.0.0 2.3 40256 14064 pts/0 T 0`



`>> kill -9 3438`



Share Improve this answer Follow

edited Sep 14, 2021 at 17:58



Antu

2,079 ● 3 ● 24 ● 40

answered Sep 4, 2017 at 17:40



Basant Rules

755 ● 10 ● 8

3 While this code snippet may solve the question, [including an explanation](#) really helps to improve the quality of your post. Remember that you are answering the question for readers in the future, and those people might not know the reasons for your code suggestion. Please also try not to crowd your code with explanatory comments, this reduces the readability of both the code and the

Add a comment

- ▲ Type 'fg' as command after that `Ctrl-C`.
- 3 Command:
- ▼ Fg will show which is running on background. After that `Ctrl-C` will stop it.

🔖  
🕒  
fg  
ctl-c

Share Improve this answer Follow

edited Mar 11, 2021 at 14:02



Samsul Islam

2,528 ● 2 ● 16 ● 23

answered Nov 26, 2019 at 0:15



mahbubcseju

mahb 2,092 ● 2 ● 15 ● 19

That was really helpful, Thanks! – Miriam Arbaji Oct 18, 2021 at 7:14

Add a comment

- ▲ 1. In terminal, Type `ps aux | grep runserver`
- 3 2. Hit **Enter**
- ▼ 3. Use PID among the result execute `kill -9 <PID>`

🔖  
🕒  
For an instance, If result of step 1 is as follow

```
root      1041  0.0  0.1 266912 34580 pts/3    S+   11:31
root      1696  4.5  0.1 126128 40708 ?        S    Feb14
```

1041 and 1696 are **PIDs**. We need to choose whichever process we want to kill among them.

Share Improve this answer Follow

answered Feb 28 at 9:03



Rahul Rahatal

629 ● 5 ● 19

Add a comment

- ▲ This is an expansion on Mounir's answer. I've added a bash script that covers this for you. Just run `./scripts/runserver.sh`
- 2 instead of `./manage.py runserver` and it'll work exactly the same way.
- ▼

🔖  
🕒

```
#!/bin/bash

pid=$(ps aux | grep "/manage.py runserver" | grep -v grep)

if [[ -n "$pid" ]]; then
    kill $pid
fi

fuser -k 8000/tcp
./manage.py runserver
```

Share Improve this answer Follow

answered Nov 25, 2014 at 23:11



jstaab

3,142 ● 25 ● 39

Add a comment



1

For me, this happens because my API request in Postman is being intercepted by a debugger breakpoint in my app... leaving the request hanging. If I cancel the request in Postman before killing my app's server, the error does not happen in the first place.

--> So try cancelling any open requests you are making in other programs.

On macOS, I have been using `sudo lsof -t -i tcp:8000 | xargs kill -9` when I forget to cancel the open http request in order to solve `error = That port is already in use.` This also, complete closes my Postman app, which is why my first solution is better.

Share Improve this answer Follow

answered May 15, 2019 at 14:30



Kermit

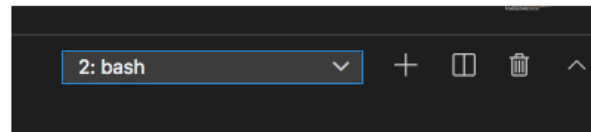
4,350 ● 4 ● 38 ● 67

Add a comment



1

Click the arrow in the screenshot and find the bash with already running Django server. You were getting the message because your server was already running and you tried to start the server again.



Share Improve this answer Follow

answered Aug 5, 2020 at 19:38



Python Newbie

167 ● 1 ● 8

Add a comment



0

if you have face this problem in mac you just need to open activity monitor and force quite python then try again



Share Improve this answer Follow

answered Feb 1, 2020 at 19:43



Ahmed Safadi

4,314 ● 35 ● 32

Add a comment



0

In case You are using the VSC's screen terminal, The error might be due to the fact that you already runserver in some other shell.

Just click on the dropdown on the left of the + sign in the header of the terminal of VSC and select some other shell and check if the server is already running there. Quit that server and you are ready to launch a another server.

Share Improve this answer Follow

answered May 14, 2020 at 7:57



Yash Verma

381 ● 3 ● 4



Add a comment



Dont use CTRL + Z to stop server, use CTRL + C to stop the server, I had also had the same problem in my linux (fedora) , I used to stop the server using CTRL + Z and again I used to kill the server using sudo fuser -k 8000/tcp command, which worked fine. But later when I started using CTRL + C , I didnot get that port running issue anymore.

Share Improve this answer Follow

answered Jan 17 at 5:24



**Bickky Sahani**  
341 ● 3 ● 12

Add a comment



I was trying all the solutions but they were not working i suggest you to keep press the power button or if your battery is removeable then remove it all the process will be killed and your local host will be reset



Share Improve this answer Follow

answered Oct 2 at 10:27



**hassan**  
24 ● 2

Add a comment



**Highly active question.** Earn 10 reputation (not counting the [association bonus](#)) in order to answer this question. The reputation requirement helps protect this question from spam and non-answer activity.

Not the answer you're looking for? Browse other questions tagged [python](#) [django](#) or [ask your own question](#).



### Your privacy

By clicking "Accept all cookies", you agree Stack Exchange can store cookies on your device and disclose information in accordance with our [Cookie Policy](#).

Accept all cookies

Customize settings

### STACK EXCHANGE NETWORK

Technology  
Culture & recreation  
Life & arts  
Science  
Professional  
Business  
API  
Data

[Blog](#) [Facebook](#) [Twitter](#) [LinkedIn](#) [Instagram](#)

Site design / logo © 2022 Stack Exchange Inc; user contributions licensed under [CC BY-SA](#).  
rev 2022.12.8.43096